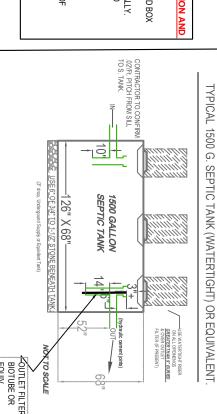


'RAISED DISPOSAL AREA) (2 % SLOPE EFFLUENT DISPOSAL AREA CENTER TO CENTER SPACING: 6' SEPTIC LINES:2 Ω FINAL GRADE Some extra t-5 sand needed at old L. Area



\LLAST CALCS (NEW 1000 GAL. "USI" PUMP CHAMBER/TANK): ESHGW = 94.68)
DTAL OUTSIDE VOLUME IN G. WATER (8.0' L X5' W X 2.22') = 88.8 CF 1. HAVE SEPTIC TANK PUMPED EVERY SECOND (2) YEARS.
2. "*HAVE TANK, PUMP AND PUMP CHAMBER & OUTLET FILTER & D BOX INSPECTED ANNUALLY
3. MAKE CERTAIN TO TEST HIGH WATER SHUT OFF ALARM ANNUALLY.
4. MAINTAIN AREA OVER SEPTIC AS GRASSY OR SIMILAR GROUND COVER ATTEMPTING TO MAXIMIZE SUNLIGHT TO AREA.
5. DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF LEACHFIELD.
6. USE ONLY LIQUID DETERGENTS IN WASHER OR DISHWASHER.
7. CONSERVE WATER WHEREVER POSSIBLE TO LENGTHEN LIFE OF SYSTEM, USE WATER SAVING DEVICES AND FIXTURES ONLY.
8. KEEP ALL RUNOFF DRAINS SUCH AS GUTTERS OR CURTAIN DRAINS AT LEAST 25 FEET FROM LEACHING FIELD.

TYPICAL D.BOX (WATERTIGHT)

NVIROFENCE" OR APPROVED TERNATE FENCING WRAP. USE APLES TO SECURE TO STAKES

OR STRAW BALES. MIN OF 2 STAKES PER BALE. SEDIME SOCK MAY ALSO BE USED.

WETLAND DELINEATION AND SEDIMENT CONTROL NOTES:

USE fabric silt fence OR Double Staked Virgin Straw Bales OR SEDIMENT SOCK (free of seeds) in order to prevent fugitive re-seeding in Resource Area.

1. NO ALTERATION OF SEDIMENT, STOCKPILING, FILLING OR CUTTING VEGETATION ON THE DOWNGRADIENT SIDE OF THE SEDIMENTATION BARRIER (SILT FENCE).

2. SEDIMENTATION BARRIER TO BE ERECTED IN A STABLE AND LASTING MANOR AS SHOWN ON THE PLAN.

3. NOTIFY CONSERVATION ADMINISTRATOR AT LEAST 72 HOURS (IF REQT), PRIOR TO START OF ON-SITE WORK, AFTER COMPLETE ON SILT FENCE INSTALLATION.

4. AS SOON AS IS POSSIBLE WORK, AFTER SHALL BE SEEDED, REVEGETATED WITH GRASS OR SIMILAR GROUNDCOVER AND MULCHED UPON COMPLETION OF SITE WORK.

5. SILT FENCE TO REMAIN STANDING UNTIL REGROWTH IS SUFFICIENT TO CONTROL FIGHTIVE SEDIMENT PINNOEF

SILT FENCE TO REMAIN STANDING UNTIL REGROWTH IS SUFFICIENT TO CONTROL FUGITIVE SEDIMENT RUNOFF.
REGRADE WORK AREA AS NOTED TO PREVENT CHANGE IN SLOPE OR RUNOFF PATTERNS

STABLE 6" BASE OF 3/4" TO 1-1/2" D. W. STONE RETE BOX WITH 2" MINIMUM WALL THICKNESS

P) PERC HOLE L

LEGEND

PLOT PLAN MAP 42 LOT 85 SCALE: 1"=30' 0.92 AC +/-

.8 CF X 7.48 GALS/CF = 664.2 GALLONS, DISP 4.2 GALLONS X 8.33 LBS/GAL= 5,533 POUNDS

JMING 3.60 FEET IN WATER TABLE)

SCALE IN FEET

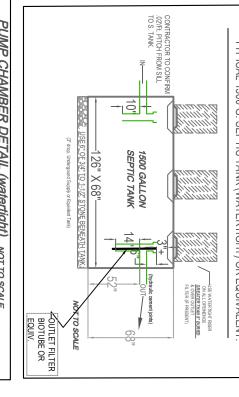
EXISTING CONTOUR PROPOSED CONTOUR

PROPERTY LINES

WELL LOCATION

NOT AN ACTUAL SURVEY!!
LINES DRAWN FOR SEPTIC
LOCATION PUROPSES ONLY!

MIN. 6" SUMP OUTLET

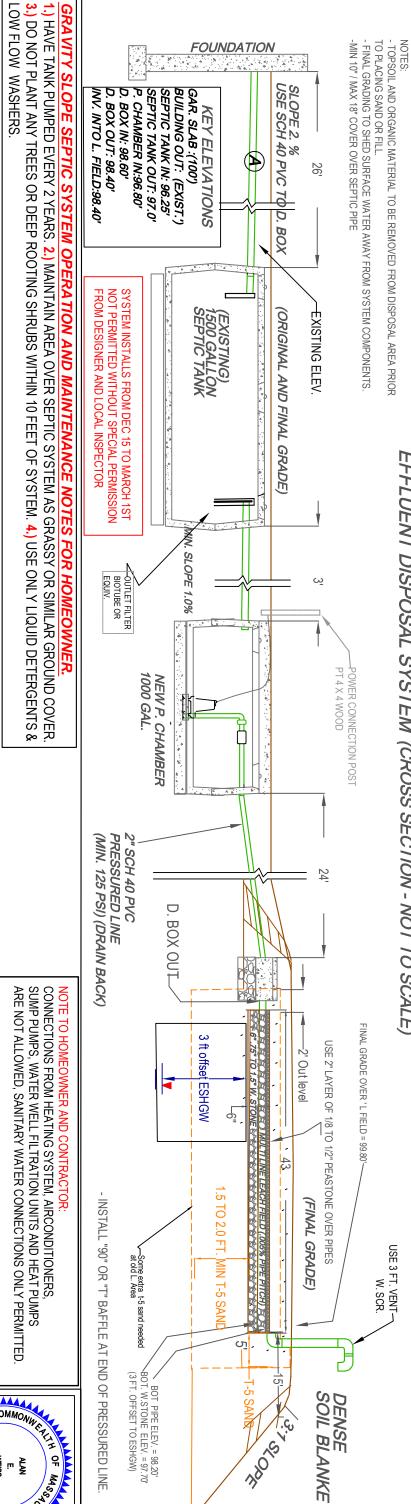


AN EXISTING SEPTIC TANKS & P. CHAMBERS:

AN EXISTING 1,000 or 1,500 GALLON TANK CAN BE USED IF UPON INSPECTION BY THE INSTALLING CONTRACTOR, IF THE TANK IS INSPECTED AND PUMPED AND FOUND TO BE STRUCTURALLY SOUND & WATERTIGHT AT THE TIME OF THE SUBGRADE INSPECTION. IF BAFFLES ARE NOT BUILT IN, THAN SCH 40 PVC TEES MUST BE ADDED.

IF TANK IS NOT SOUND THAN, NOTIFY ENGINEER IMMEDIATELY IN ORDER TO ACCOMODATE A NEW 1,500 GALLON (MIN.) SEPTIC TANK. USE: USI ST-1000M USE: USI ST-1000M REQUIRED DUE TO SITE DAS WHICH WILL NOT DATE GRAVITY FLOW NK TO EFFLUENT L AREA USE 6" OF 1.5" W. STONE ECK VALVE, DRILL 5/32" HOLE after VALVE FLAP FOR DRAIN BA (pitiess adapters can be used), (place ball valve on line for flow reduction to 1/2 flow.) (watertight) 6" float offse \models 120 gals PER CYCLE pipe volume =(30' + 5')= 35.' x 0.163 gal/fl= 5.7 +/- gals FLOOR OR SLAB PUMP SPECIFICATIONS: Liberty LE51A (1/2 HP)..or equiv. DELIVER 40 GPM @ 20' OF HEAD -2" sch. 40 PVC NOT TO SCALE LALL FLOATS & PUMP
TESTED AT TIME OF FINAL

EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)

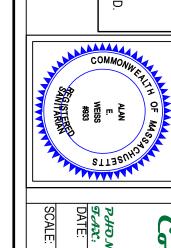


FOUNDATION

NOTE TO HOMEOWNER AND CONTRACTOR:
CONNECTIONS FROM HEATING SYSTEM, AIRCONDITIONERS,
SUMP PUMPS, WATER WELL FILTRATION UNITS AND HEAT PUMPS
ARE NOT ALLOWED, SANITARY WATER CONNECTIONS ONLY PERMITTED.

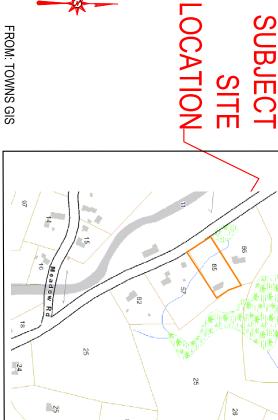
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.



1"=30'

PAGE 1 OF 2



- 1. 4 BEDROOM = 440 GPD MININMUM REQUIRED, (MININIMUM DESIGN FLOW, 440 GPD)
- 2. Use LEACH FIELD 14' WIDE X 43' LONG WITH 6" OF \(\frac{3}{4}\) TO \(\frac{1}{2}\).

 DOUBLE WASHED STONE BELOW INVERT:
- TOTAL AREA: 602 SF X 0.74 GAL/SF = 445 GPD PROVIDED

- 3. GARBAGE DISPOSAL NOT PERMITTED (REMOVE). A/C AND FURNACE CONDENSATE TUBES NOT ALLOWED.
 4. NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS.
 5. NO WETLANDS (RESOURCE AREAS WITHIN 50' FEET OF SAS. FILE REQUEST FOR DETERMINATION (RDA)
 6. USE 1,500 GALLON SEPTIC TANK & 1000 gallon PUMP CHAMBER AS NOTED & MAINTAIN 0.02 PITCH FROM SILL
 TO SEPTIC TANK,
- INSTALL & INSPECT SCHEDULE 40 TEES. (10" INLET, 14" OUTLET),
- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES. USE LARGE STYLE (6 OUTLET) DISTRIBUTION BOX.

 ALL DISTRIBUTION BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+THICK CONCRETE WALLS.
- DISTRIBUTION BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE
- œ
- USE (.75"-1 1/2") STONE UNDER TANK & DISTRIBUTION BOX FOR 6" FOR STABLE BASE.
 USE ONLY DOUBLE WASHED APPROVED STONE (.75"-1.5") FOR PLACEMENT IN LEACH AREA.
 USE SCHEDULE 40 PVC PIPING FROM DWELLING TO DISTRIBUTION BOX INLET.

- USE SCHEDULE 40 PVC PIPING FROM DWELLING TO DISTRIBUTION BOX INLET.
 PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AREA IS NOT REQUIRED.
 SUBGRADE INSPECTION IS REQUIRED PRIOR TO PLACEMENT OF TITLE 5 SAND OR LEACHING STONE.
 USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION OF DWELLING
- 13. USE 2% MINIMUM SLOPE AND ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240) OVER SAS
- CLEAR TOP AND SUB TO MINIMIUM five feet around, (INSPECTION REQUIRED).
 CLEAR PAST BASE OF B & SCARIFY UNDER STONE PRIOR TO TITLE V SAND/STONE PLACEMENT.
 EXCAVATE EXISTING LOAM, SUBSOIL AND ANY EXISTING DEBRIS OR DIRTY FILL, IF PRESENT.
 SOIL EVALUATION BY A. WEISS. & G. McNEALY. 01.04.2023
 DEPTH OF PERC. 44"

<u>4</u>.

- CLASS 1, SAND SOIL RATING

 15. NO TREES WITHIN 10 FEET OF NEW LEACH AREA.

 16. ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.

 17. TBM1 = 100.0 @ gar. slab, CONFIRM PROPER PIPE SLOPES, OTHERS NOTED.

 18. GRADE MULCH AND SEED OVER SAS AS NOTED.

 19. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

 20. USE OBSERVATION PORT NEAR CENTER OF STONE BED, USE 4" PERFORATED SCH 40 PVC PORTALS BOTTOM OF STONE, WITH RISER TO WITHIN 3" OF SURFACE & THREADED CAP MARKED WITH SUBGRADE RE-BAR. 7
- **LOCAL UPGRADE APPROVAL FOR SAS OFFSET FROM LEACH BOTTOM TO SEASONAL HIGH G. WATER 3' NOT 4'.

) JH)	<u>–</u>	<u> </u>	FST PIT I OG:	•	SOIL EVALUATOR:	LUAT	IL EVALUATOR:		DATE OF EVALUATION:
	TP-1: 98.6'	<u>ත</u>				TP-2: 98.60'	ő			
	DEPTH:	HORIZ:	TEXTURE:	HORIZ: TEXTURE: (MUNSELL):	MATERIAL:	DEPTH:	НОЕ	ίZ:	RIZ: TEXTURE:	HORIZ: TEXTURE: (MUNSELL):
1	0-20"	Α	FSL	10 YR 3.2 A & FILL MIX	A & FILL MIX	0-10"	Α		FSL	
:/	20-32"	В	FS	10 YR 5.6	WELL SORTED	10-38"		В	3 FS	
	32-62"	C1	S	10 YR 5.4	10 YR 5.4 FINE- CRSE. SAND, 10 % COBBLES	38-60"		C1	C1 S	
	62-102"	ಬ	LSLT	2.5 Y 5.1	2.5 Y 5.1 FINE SILT LOAM, VARVED, PLATEY	60-104"		C2	C2 LSLT	C2 LSLT 2.5 Y 5.1 FINE SILT LOAM, VARVED, PLATEY
	OXIDES:			47"	7.5Y YR 5/8, 2.5 Y 5.1	OXIDES:	1 1			47"
	EHWT:			47" = 94.68'	ω	EHWT:				47"
	STANDING H20:	G H20		NOT		STANDING H20:	\odot	H2C	H20:	H20: NOT
	WEEPING:	9.7		NOT		WEEPING:	9.2			NOT
У	BEDROCK:	Ž.		102"		BEDROCK:	ス しんしん しんしん しんしん しんしん しんしん しんしん しんしん しん			104"+

SEPTIC SYSTEM DESIGN PLAN FOR MICHAEL HAYDEN 409 OLD GREENFIELD ROAD

MONTAGUE, MA

Spring Environmental Consultants 350 Old Enfield Road gnc.

Cold

PHONE: (413) 323-5957 9-AX: (413) 323-4916 DATE: 01.05.2023 DRAWN BY: ALAN WEISS REVISED: DRAWING NUMBER: 123-6767-0104